MD 178 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS

14A,14B — CROWNSVILLE RD — D3-1 DUAL FACED SIGN (VAR. X 16")

15 — LEFT TURN YIELD ON GREEN

16,17 — NO TURN ON RED

18 — END CENTER LANE ONLY

19 — RIGHT LANE MUST TURN RIGHT AT SIGNAL

20 — ALTERNATE 97

21 — ALT TO EAST 450

EXISTING SIGNALS

2 — R, Y, G — 12"

3-11 — R, Y, G — 12"

12,13 — R, Y, G — 12"

PROPOSED SIGNAL

1 — R, Y, G — 8"/12"

NEMA PHASING

MD 178 & CROWNSVILLE RD.

Ø 1, Ø 2, Ø 4, Ø 6

FLASHING OPERATION

NEMA PHASING

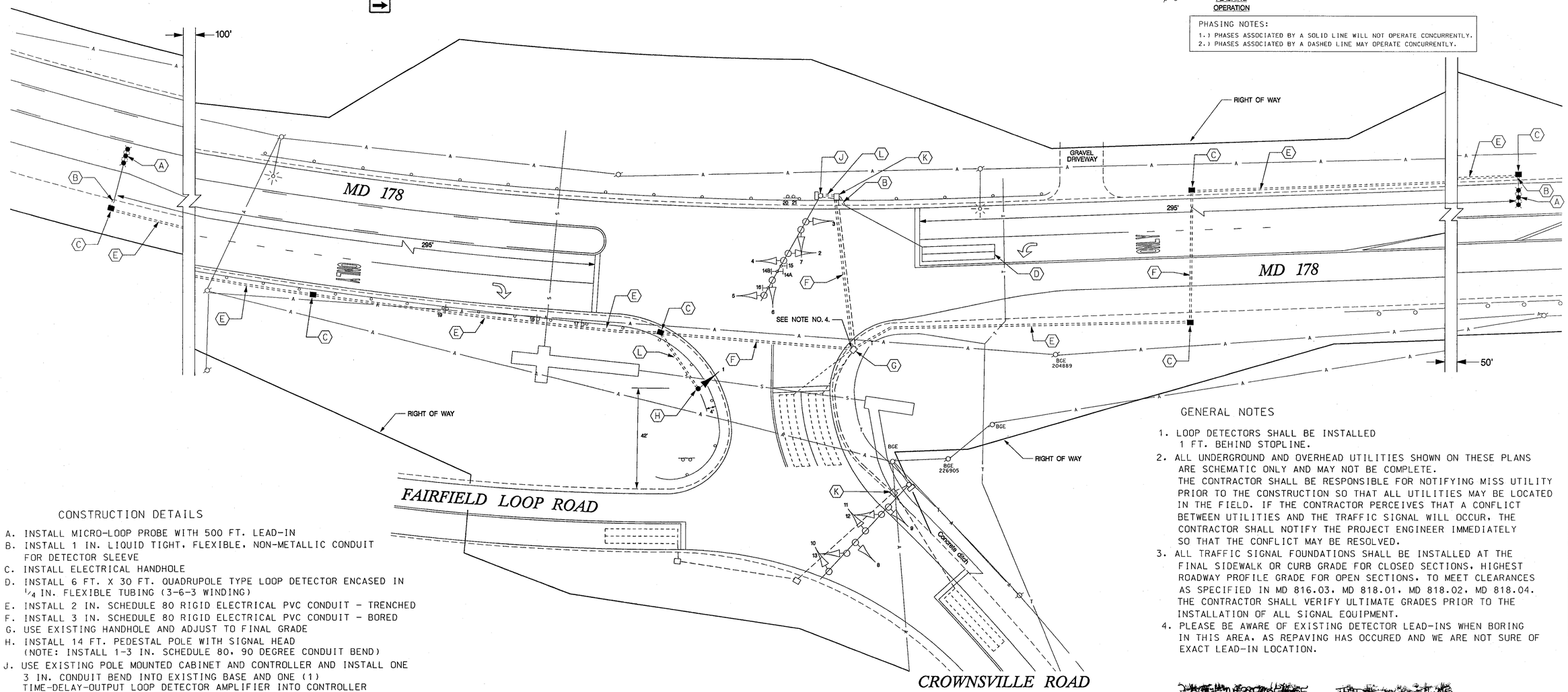
CROWNSVILLE RD & FAIRFIELD LOOP RD

Ø 2, Ø 3, Ø 4

PHASE 3 & 4 HOLD MD 178 @ CROWNSVILLE RD Ø4

FLASHING OPERATION

PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
B. INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
C. INSTALL ELECTRICAL HANDHOLE
D. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
E. INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
F. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
G. USE EXISTING HANDHOLE AND ADJUST TO FINAL GRADE
H. INSTALL 14 FT. PEDESTAL POLE WITH SIGNAL HEAD (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
J. USE EXISTING POLE MOUNTED CABINET AND CONTROLLER AND INSTALL ONE 3 IN. CONDUIT BEND INTO EXISTING BASE AND ONE (1) TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER INTO CONTROLLER
K. ADJUST EXISTING HANDHOLE TO FINAL GRADE
L. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED

GENERAL NOTES

1. LOOP DETECTORS SHALL BE INSTALLED 1 FT. BEHIND STOPLINE.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. PLEASE BE AWARE OF EXISTING DETECTOR LEAD-INS WHEN BORING IN THIS AREA. AS REPAVING HAS OCCURED AND WE ARE NOT SURE OF EXACT LEAD-IN LOCATION.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

REVISIONS

D	ADD MAIN LINE DETECTION AND FAR LEFT SIGNAL				
4/2004	SHA NO. XX1065485				
MD					
C	REPLACE CONTROLLERS AND CABINETS ADD PHONE DROP				
2-98					
DCI/LSC	MAR			BEV	TH
B	ADD E/P PHASE W/B MD 178 INSTALL FAIRFIELD LOOP RD SIGNAL				
3/4/91	SHA NO. 499-501-567				
EMM	DJD	DAZ	ETP		TH
A	RELOCATE SIGNAL #5 & 6 PER D.T.E.'S REQUEST				
8/9/83	SHA NO. AA-349-501-585				

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

SIGNALIZATION PLAN

MD 178 AT CROWNSVILLE ROAD/FAIRFIELD LOOP ROAD

DRAWN BY:	J.A.BOLING	F.A.P. NO.		TS NO. 1892-D	SHEET NO. 1 OF 2
CHECKED BY:	J.A.BOLING	S.H.A. NO.	AA-349-501-585		
SCALE:	1" = 20'	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. F751	
DATE:	11-1-82	LOG MILE:	0.0/7.80 4.20		